HALF SIZE HCMOS TRI-STATE ENABLE/DISABLE OSCILLATOR

H5C-2

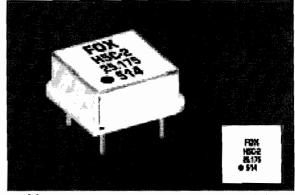
The H5C-2 Clock Oscillator employs a tri-state function for control of the output. Applying a logic '1' to pin 1 enables the oscillator output and a logic '0' to pin 1 disables the output to a high impedance state called High Z state. This allows for testing by automated test equipment by having the part appear as removed from the circuit. The package is all metal with pin 4 as case ground which provides shielding to help minimize EMI radiation.

FEATURES

- 8 Pin Dip
- 15 pF HCMOS Load
- 10 TTL Fanout
- Tri-state Enable/Disable
- 45/55 Symmetry (to 80 MHz)
- · Fast Rise/Fall Times
- -40°C to +85°C Available

PART NUMBER SELECTION

Frequency Stability	Part Number		
±100PPM	H5C-2		
±50PPM (up to 90MHz)	H6C-2		
±25PPM (up to 50MHz)	H7C-2		





Actual Size

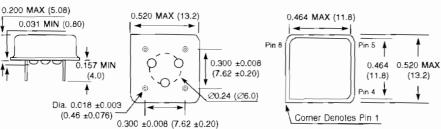
1+5C-2 50.000MHz IT

PARAMETERS		FREQUENCY RANGE	CONDITIONS	MIN	MAX	UNITS
	(Fo)	FREQUENCI RANGE	COMDITIONS	1.544	100.000	MHz
	(F0)	1.544 ~ 100.000	All Conditions *		+100	PPM
Frequency Stability			All Conditions *	-100	+100	PPIVI
Temperature Range	(TD)	1.544 ~ 100.000		10		0.0
	(TOPR)			-10	+70	°C
	(Tstg)			-55	+125	
Supply Voltage	(VDD)			+4.5	+5.5	V
Input Current	(IDD)	1.544 ~ 25.000			20	mA
		25.000+ ~ 50.000			35	
		50.000+ ~ 80.000			59	
		80.000+ ~ 100.000			69	
Output Symmetry		1.544 ~ 80.000	2.5V	45	55	%
		80.000+ ~ 100.000		40	60	
Rise Time	(TR)	1.544 ~ 100.000	0.5V ~ 4.5V		5	nS
Fall Time	(TF)		$4.5V \sim 0.5V$		5	
Output Voltage	(VOL)	1.544 ~ 100.000	IOL = 16 mA		0.5	
	(VOH)		IOH = -16 mA	4.5		
Output Current	(IOL)	1.544 ~ 100.000	VOL = 0.5 V		16	mA
. ((IOH)		VOH = 4.5 V		-16	
Output Load	, ,	1.544 ~ 100.000	TTL		10	TTL
-			HCMOS		15	pF
Start-up Time	(Ts)	1.544 ~ 100.000			10	mS
Output Enable/Disab	ole Time	1.544 ~ 100.000			100	nS

Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

* An internal pullup resistor from pin 1 to pin 8 allows active output if pin 1 is left open.

All specifications subject to change without notice. Rev. 5/20/98



• ENABLE / DISABLE FUNCTION**

INH (Pin 1)	OUTPUT (Pin 5)
OPEN ***	ACTIVE
'1' Level VIII≥ 2.2 V	ACTIVE
'0' Level VIL≤0.8 V	High Z

Pin Connections

#1 E/D** #5 Output #4 GND (Case) #8 +5VDC

Inch dimensions shall govern. All dimensions are in inches & parenthetically in millimeters.

See page 35 for mechanical specifications, test circuits, and output waveform.